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title: Transmission-type X-ray Linear Polarizer with Perfect Crystals ... title: Asynchronous Pulse Neural Network Model for VLSI Implementation ... www.t.u-tokyo.ac.jp/research/1998/periodicals\_i.html - 103k - Cached - Similar pages

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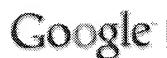
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December 1987 Proceedings of ACM conference on History of medical informatics

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The Brain Research Institute is an interdisciplinary research unit of the UCLA Medical School, supporting basic research in fields which contribute to an understanding of brain mechanisms and behavior. In 1960 the School of Medicine was relatively young, having graduated its first class in 1955. Among the early professors to affiliate with the new medical school was Dr. H. W. Magoun, whose own research interests were in the nervous system. Under his leadership, a formal proposal was prepare ...

2 Improving human haptic performance in normal and impaired human populations through unattended activation-based learning



Hubert R. Dinse, Tobias Kalisch, Patrick Ragert, Burkhard Pleger, Peter Schwenkreis, Martin Teaenthoff

April 2005 ACM Transactions on Applied Perception (TAP), Volume 2 Issue 2

Full text available: pdf(15.56 MB)

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Human haptic performance is not fixed, but subject to major alterations through learning processes. We describe a new stimulation protocol that allows to improve haptic performance in humans in a highly systemic way through unattended activation-based learning. The so-called coactivation protocol is based upon temporal constraints of Hebbian learning where simultaneity plays a key role for the induction of plastic changes. We provide an overview about the potential of coactivation by summarizing ...

Keywords: Learning, aging, cognition, cortical reorganization, learn-ware, plasticity, therapy

3 Multimedia data mining: Automatic classification of speech and music using neural networks



M. Kashif Saeed Khan, Wasfi G. Al-Khatib, Muhammad Moinuddin

November 2004 Proceedings of the 2nd ACM international workshop on Multimedia databases

Full text available: pdf(1.67 MB)

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The importance of automatic discrimination between speech signals and music signals has

evolved as a research topic over recent years. The need to classify audio into categories such as speech or music is an important aspect of many multimedia document retrieval systems. Several approaches have been previously used to discriminate between speech and music data. In this paper, we propose the use of the mean and variance of the discrete wavelet transform in addition to other features that have ...

Keywords: audio features, audio signal processing, content-based indexing, music speech classification, neural networks

VC dimension of an integrate-and-fire neuron model



Anthony M. Zador, Barak A. Pearlmutter

January 1996 Proceedings of the ninth annual conference on Computational learning

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5 Health aspects of wireless communication: auditory perception of microwaves --hearing microwaves



James C. Lin

April 2002 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 6 Issue 2

Full text available: pdf(30.99 KB) Additional Information: full citation, references, citings, index terms

Using artificial neural nets to predict academic performance Al Cripps



February 1996 Proceedings of the 1996 ACM symposium on Applied Computing

Full text available: pdf(543.55 KB) Additional Information: full citation, references, index terms

**Keywords**: academic, neural networks, prediction

Prediction of attention in autism from single-trial EEG using artificial neural networks Matthew Belmonte



August 1997 ACM SIGBIO Newsletter, Volume 17 Issue 2

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, index terms

Two-layer and three-layer feed-forward artificial neural networks were trained to predict behvioural performance from singletrial EEG in autistic and normal subjects in a task involving response to rare stimuli and shifting of attention between vision and audition. Eyeblink artefacts were removed from the data using a frequency-domain filter. Performances of the networks on separate test sets varied across subjects but were usually at least 80%. The networks usually converged faster and attained ...

Keywords: EEG, ERP, P3, artefact correction, attention, autism, eyeblink, neural networks

Supervised adaptive resonance networks



R. S. Baxter

May 1991 Proceedings of the conference on Analysis of neural network applications

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Poster session 1: Generating decision regions in analog measurement spaces Haralampos-G. D. Stratigopoulos, Yiorgos Makris April 2005 Proceedings of the 15th ACM Great Lakes symposium on VLSI



Full text available: pdf(375.78 KB) Additional Information: full citation, abstract, references, index terms

We develop a neural network that learns to separate the nominal from the faulty instances of a circuit in a measurement space. We demonstrate that the required separation boundaries are, in general, non-linear. Unlike previous solutions which draw hyperplanes, our network is capable of drawing the necessary non-linear hypersurfaces. The hypersurfaces translate to test criteria that are strongly correlated to functional tests. A feature selection algorithm interacts with the network to identify a ...

Keywords: analog circuits, implicit functional test, neural networks

10 Interaction in the real world: Ambient touch: designing tactile interfaces for handheld devices



Ivan Poupyrev, Shigeaki Maruyama, Jun Rekimoto

October 2002 Proceedings of the 15th annual ACM symposium on User interface software and technology

Full text available: pdf(3.71 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper investigates the sense of touch as a channel for communicating with miniature handheld devices. We embedded a PDA with a TouchEngine<sup>™</sup> --- a thin, miniature lowerpower tactile actuator that we have designed specifically to use in mobile interfaces (Figure 1). Unlike previous tactile actuators, the TouchEngine is a universal tactile display that can produce a wide variety of tactile feelings from simple clicks to complex vibrotactile patterns. Using the TouchEngine, we bega ...

**Keywords**: mobile devices and interfaces, tactile feedback

11 A modular software real-time brain wave detection system

A. A. Arroyo, D. G. Childers

April 1982 Proceedings of the 20th annual Southeast regional conference

Full text available: Pdf(376.12 KB) Additional Information: full citation, abstract, references

The philosophy behind the modular design and implementation of a computer-driven facility to collect and process EEG records is illustrated. The software modules are stand-alone programs in their own right that can externally be reconfigured into the components to solve a more complex problem. As such, they behave like the "commands" of a command line interpreter (CLI). They are easily invoked by the use of operating system macros without increasing the demands on the system operator. By the use ...

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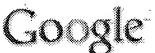
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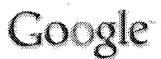
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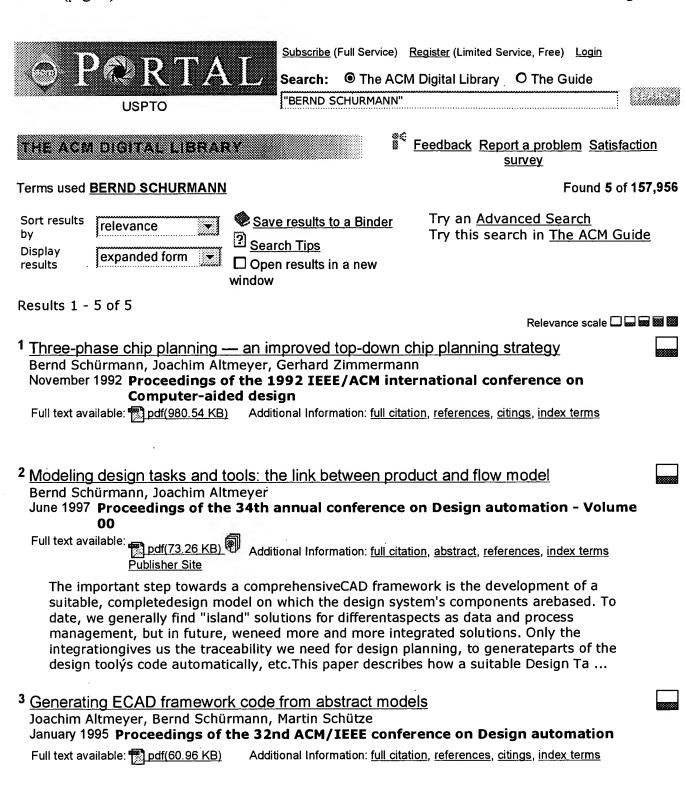
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<sup>4</sup> Reuse of design objects in CAD frameworks Joachim Altmeyer, Stefan Ohnsorge, Bernd Schürmann November 1994 Proceedings of the 1994 IEEE/ACM international conference on Computer-aided design

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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#Inspec

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	327899	discriminat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 15:32
L5 .	37	deco-gustavo.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 15:32
L6	6	schurmann-bernd.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 15:32
L7	12	L5 xor L6 L5 and L6	US-PGPUB; USPAT	OR	ON	2005/06/29 15:32
L8	2	L7 and L4	US-PGPUB; USPAT	OR	ON	2005/06/29 15:32

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S27 0	37	deco-gustavo.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 14:42
S27 1	6	schurmann-bernd.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 14:42
S27 2	38	S270 xor S271 S270 and S271	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 14:52
S27 3	9	S272 and @ad<="19980825"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 15:02
S27 4	12	S270 xor S271 S270 and S271	US-PGPUB; USPAT	OR	ON	2005/06/29 15:31

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L13	1525543	cho\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:36
L14	4398833	select\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:36
L15	4983284	L13 L14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2005/06/29 11:36
L16	5308923	"same" identical\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:36
L17	5002268	equ\$9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:36
L18	7545718	L16 L17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:36
L19	2786483	iterat\$5 repeat\$ repetit\$5 cycl\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:36
L20	3258658	L19 loop\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:36
L21	89688	neur\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:36

L22	327899	discriminat\$4	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2005/06/29 11:36
			DERWENT; IBM_TDB			
L23	7413	L15 and L18 and L21 and L20 and L22	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:54
L49	550666	(train\$4 learn\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:54
L50	3728	23 and L49	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:55
L51	1141019	puls\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:55
L52	89688	neur\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:55
L53	603	L51 near3 L52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:55
L54	-50	L53.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:55
L55	0	50 and L54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 11:55
L56	18	706/35.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:06

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L57	2	50 and L56	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:07
L58	2	57 and @ad<="19980825"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:10
L59	6576	"706"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:06
L60	397	50 and L59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:08
L61	3622	(15 same 49 same 52)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:09
L62	190	61 and 60	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:09
L63	127	62 and @ad<="19980825"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:14
L64	72036	18 same 22	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:13
L65	256	61 and 64 and 20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:14
L66	85	65 and 59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:13

L67	55	66 and @ad<="19980825"	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2005/06/29 12:15
L68	26	61 same 64 and 20	IBM_TDB US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:14
L69	11	68 and @ad<="19980825"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 12:15

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1525543	cho\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 09:56
L2	4398833	select\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 09:57
L3	4983284	12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR _	ON	2005/06/29 09:58
L4	5308923	"same" identical\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 09:58
L5	5002268	equ\$9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 09:58
L6	7545718	L4 L5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2005/06/29 09:59
L7	2786483	iterat\$5 repeat\$ repetit\$5 cycl\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 09:59
L8	3258658	L7 loop\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 09:59
L9	89688	neur\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 09:59

L10	327899	discriminat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 09:59
L11	10	3 same 6 same L9 same L8 same L10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 09:59
L12	1	11 and @ad<="19980825"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 10:01

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No.	Doccode	Number of pages
1	SRNT	1

Tota	l num	ber of	pages:	1
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